



Aug 10 8 33 AM '78

UNIVERSITY OF HAWAII
LIBRARY

an international journal

molecular and cellular biochemistry

Editor in Chief

V. A. Najjar – Boston

Advisory Board

C. F. Cori – Boston

E. Katzir – Rehovoth

A. Kornberg – Stanford

H. A. Krebs – Oxford

S. Ochoa – Nutley

F. B. Straub – Budapest

H. Theorell – Stockholm

L. F. Leloir – Buenos Aires

Editorial Board

P. A. Albertsson – Lund

T. Baranowski – Wrocław

F. Bricas – Paris

J. M. Buchanan – Boston

R. Caputto – Cordoba

F. Cedrangolo – Naples

G. N. Cohen – Paris

S. P. Colowick – Nashville

S. S. Debov – Moscow

P. Desnuelle – Marseille

C. de Duve – New York

H. Eagle – New York

G. Fawaz – Beirut

H. Gutfreund – Bristol

O. Hayaishi – Kyoto

J. Heller – Warsaw

G. Hers – Louvain

O. Hoffmann-Ostenhof – Vienna

L. Jaenicke – Cologne

P. Jollès – Paris

J. Larner – Charlottesville

P. K. Maitra – Bombay

H. A. McKenzie – Canberra

S. A. Neifakh – Leningrad

A. I. Oparin – Moscow

S. Pontremoli – Genova

S. Rapoport – Berlin

A. Rossi-Fanelli – Rome

R. Sato – Osaka

R. Schwyzer-Zürich

N. Sharon – Rehovoth

A. Sols – Madrid

F. Šorm – Prague

T. C. Stadtman – Bethesda

E. A. Stein – Geneva

F. B. Straub – Budapest

D. R. Whitaker – Ottawa

Volume 19

Issue 19,1 (pag. 3—64): 24-2-1978

Issue 19,2 (pag. 67-132): 11-4-1978

Issue 19,3 (pag. 135-196): 31-5-1978

INDEX AUTORUM

ALHADEFF, J. A., 171
ANDERSON, C. E., 81
ANNENKOV, G. A., 165
ARGARAÑA, C. E., 17
BARRA, H. S., 17
BAYER, E. A., 23
BENITO, M., 75
BLÜTHMANN, H., 147
BRUNORI, M., 43
CAPUTTO, R., 17
CHAN, S. H. P., 135
CIMINO, G., 171
DICKSON, A. J., 81
DOWNS, J., 3
DUERKSEN, J. D., 93
FERAUDI, M., 191
FIORETTI, E., 43
FREEDMAN, J. A., 135
GARCIA-BUENO, M., 75
GARRICK, L. M., 49
GARRICK, M. D., 49
GIRSCH, S. J., 113
GUBERNIEVA, L. M., 165
HASTINGS, J. W., 113
HAZEN, R., 31
JANOWSKY, A., 171
KELLEHER, J. K., 67
KELLEY, P. J., 67
KLOTZ, M., 125
KOHLMAYER, M., 191

LABROSSE, K. R., 181
LANGSLOW, D. R., 81
LARNER, J., 31
LEHMANN, M., 155
LIENER, I. E., 181
MACKENZIE, C. G., 7
MACKENZIE, J. B., 7
MALAKHOV, V. N., 165
MAMAEV, V. B., 165
MASORO, E. J., 3
MEDINA, J. M., 75
MORENO, F. J., 75
MORITZ, E., 7
POPE, K., 132
REIF-LEHRER, L., 131
REISS, O. K., 7
RICKWOOD, D., 125
ROTILIO, G., 43
SAFRONOVA, E. E., 165
SCHMOLZ, G., 191
SKUTELSKY, E., 23
VISWANATHA, T., 23
WALKENBACK, R. J., 31
WAYNE CONNOR, K., 93
WILCHEK, M., 23
WISNESKI, J. A., 7
WÖBER, G., 155
WRIGHT, B. E., 67
YU, B. P., 3

CONTENTS

General Articles

BYUNG P. YU, E. J. MASORO & J. DOWNS: Isolation of subunits from trypsin-cleaved sarcoplasmic reticulum Ca^{2+} transport adenosine triphosphatase	3
C. G. MACKENZIE, ELIZABETH MORITZ, JUDITH A. WISNESKI, O. K. REISS & JULIA B. MACKENZIE: Fatty acid ester turnover: a control factor in triacylglycerol and lipid-rich particle accumulation in cultured mammalian cells	7
C. E. ARGARAÑA, H. S. BARRA & R. CAPUTTO: Release of [^{14}C]tyrosine from tubuliny- [14]tyrosine by brain extract. Separation of a carboxypeptidase from tubulin-tyrosine ligase	17
E. A. BAYER, E. SKUTELSKY, T. VISWANATHA & M. WILCHEK: Specific localization and quantification of biotin transport components in yeast by use of a biotin-conjugated, impermeant, electron-dense label	23
R. J. WALKENBACH, R. HAZEN & J. LARNER: Reversible inhibition of cyclic AMP-dependent protein kinase by insulin	31
M. BRUNORI, E. FIORETTI & G. ROTILIO: Effect of drugs on oxidation and precipitation of the isolated chains of human hemoglobin	43
LAURA M. GARRICK & MICHAEL D. GARRICK: Testing with puromycin for amino acyl tRNAs that limit the rate of peptide chain extension	49
Nomenclature of multiple forms of enzymes	63

General Articles

J. K. KELLEHER, P. J. KELLEY & B. E. WRIGHT: A kinetic analysis of glucokinase and glucose-6-P phosphatase in Dictyostelium	67
M. GARCIA-BUENO, M. BENITO, F. J. MORENO & J. M. MEDINA: Changes in the liver lactate dehydrogenase isozyme profile after induced glycogenolysis	75
A. J. DICKSON, CAROLINE E. ANDERSON & D. R. LANGSLOW: The use of viable hepatocytes to study the hormonal control of glycogenolysis in the chicken	81
J. D. DUERKSEN & K. WAYNE CONNOR: Periodicity and fragment size of DNA from mouse TLT hepatoma chromatin and chromatin fractions using endogenous and exogenous nucleases	93
S. J. GIRSCH & J. W. HASTINGS: The properties of Mnemiopsin, a bioluminescent and light sensitive protein purified by hollow fiber techniques	113
M. KLOTZ & D. RICKWOOD: Estradiol-binding protein in the nucleus of male <i>Xenopus laevis</i> liver	125

Arts in Science

LIANE REIF-LEHRER: Thoughts at the funeral of a friend's father	131
KATHY POPE: Cartoon	132

Review Articles

- JO ANN FREEDMAN & S. H. P. CHAN: Biosynthesis of mitochondrial membrane proteins: co-ordination with special reference to cytochrome *c* oxidase 135

General Articles

- H. BLÜTHMANN: DNA-binding properties of a nonhistone chromosomal protein from lymphocytes 147
- M. LEHMANN & G. WÖBER: Continuous cultivation in a chemostat of the phototrophic procaryote, *Anacystes nidulans*, under nitrogen-limiting conditions 155
- L. M. GUBERNIEVA, E. E. SAFRONOVA, V. N. MALAKHOV, V. B. MAMAEV & G. A. ANNENKOV: Estimation of correlation of lactate dehydrogenase subunits mole quota based on differences in substrate inhibition 165
- J. A. ALHADEFF, G. CIMINO & A. JANOWSKY: Isoenzymes of human liver α -L-fucosidase: chemical relationship, kinetic studies, and immunochemical characterization 171
- K. R. LABROSSE & I. E. LIENER: Collagenolytic activities in methylcholanthrene-induced fibrosarcomas in mice 181
- M. FERAUDI, M. KOHLMEIER & G. SCHMOLZ: Steady-state study of horse-liver ADH: detection of two kinetically heterogeneous components 191